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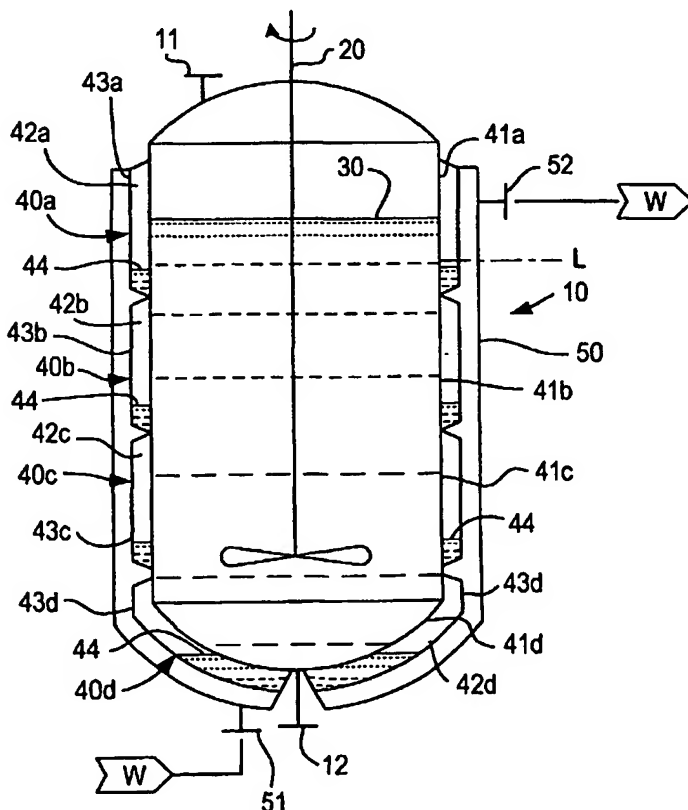
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(54) Title: **MULTIPHASE POLYMERIZATION REACTOR**

(57) Abstract: A polymerization reactor comprises a heat pipe jacket for the removal of large heat fluxes and capable of maintaining essentially isothermal conditions without the use of complicated and maintenance intensive circulation heat exchangers or internal coils. This isothermal reactor is useful particularly when polymerization is conducted in multiphase system and/ or when the rate of reaction is high and when consistent polymer properties are desired.

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